

American Society of Echocardiography

# ASE2021

*Virtual Experience*

**A REVOLUTION**  
IN CARDIOVASCULAR IMAGING

32<sup>nd</sup> Annual  
Scientific Sessions

**June 18-21, 2021**

**#ASE2021**

**[ASEScientificSessions.org](https://ASEScientificSessions.org)**

**ADVANCE PROGRAM**

## Welcome to the ASE 2021 Scientific Sessions Virtual Experience, “A Revolution in Cardiovascular Imaging.” Recent innovations in echocardiography are truly revolutionary—and these innovations are transforming patient care.

While we were all looking forward to an in-person meeting in Boston this year, the pandemic had other plans. Despite the change in format, your planning committee has assembled a program filled with novel and exciting educational content, including an expanded four-day program, from June 18<sup>th</sup> – June 21<sup>st</sup>.

Highlights and new features this year include:

- Dr. Eric Topol, Founder and Director of the Scripps Research Translational Institute (SRTI), Executive Vice President of Scripps Research and Professor of Molecular Medicine, and author of *Deep Medicine* will deliver the keynote presentation “A Revolution in Cardiovascular Imaging” on Friday, June 18.
- A Clinical Pathologic Conference in association with the *New England Journal of Medicine* and our colleagues at the Massachusetts General Hospital – an echocardiographic luminary will serve as discussant on a case with echocardiographic impact.
- A special session, including the Gardin Lecture, focusing on aerospace cardiology – the intersection of cardiac imaging, physiology, and space exploration.
- Two sessions focusing on COVID-19, including up-to-date information on cardiovascular complications, vaccines, and therapeutics.
- Two Value Summit sessions – “An Insider’s View of Washington, DC” and an expert view on “Maintaining Quality in the Echo Lab.”
- Six sessions developed by ASE’s International Alliance Partners – firmly establishing the 2021 Scientific Sessions Virtual Experience as an international collaborative event.
- A special session on “Standardization in Echocardiography: the Next Frontier.”
- Four sessions designed by ASE’s Specialty Interest Groups (SIGs) focusing on critical care, structural heart interventions, emerging echo enthusiasts, and neonatal hemodynamics.
- The Arthur E. Weyman Young Investigator’s Award Competition and 22<sup>nd</sup> Annual Feigenbaum Lecture.
- The 32<sup>nd</sup> Annual Edler Lecture presented by ASE Immediate Past President Madhav Swaminathan, MD, FASE.
- The ASE Foundation Research Awards Gala featuring ASE/ASEF Award winners, this year in virtual format and open to all attendees.

On behalf of the planning committee, we look forward to welcoming you to the ASE 2021 Scientific Sessions Virtual Experience on June 18<sup>th</sup>!

Sincerely,



*Michael L. Main*

**Michael L. Main, MD, FASE**  
ASE 2021 Program Chair  
Saint Luke’s Mid America Heart Institute  
Kansas City, MO

Sincerely,



*Keith Collins*

**Keith Collins, MS, RDCS, FASE**  
ASE 2021 Sonographer Co-Chair  
Northwestern Medicine  
Chicago, IL

# SCIENTIFIC PROGRAM TRACKS & LEVELS

## ADULT CONGENITAL HEART DISEASE (A)

In line with the ASE's Pediatric and Congenital Heart Disease Council, the new ACHD Track addresses the adult-specific congenital cardiovascular diseases. The esteemed faculty will be covering relevant topics that cover a wide spectrum of ACHD. These highly educational ACHD sessions offer an enriching practical learning opportunity for sonographers, physicians, and ACHD specialists.

## CIRCULATION (C)

ASE's Council on Circulation & Vascular Ultrasound has selected relevant topics and valuable presentations that cover a broad-spectrum of arterial and venous diseases. The program here is focused on advancing knowledge and clinical practice in vascular conditions.

## EARLY CAREER (EC)

The Early Career session this year was created by ASE's Emerging Echo Enthusiasts (E3) Specialty Interest Group. Troubleshooting Structural Heart Interventions, on Friday, June 18, is designed for fellows in training and early career physicians and sonographers.

## IMAGING ESSENTIALS (E)

This track, designed by lead sonographer practitioners, focuses on basic to advanced echocardiographic concepts and practices for today's cardiac sonographer. These sessions will help to enhance and expand your practical and theoretical knowledge of echocardiography in the assessment of various cardiac diseases. This includes myocardial strain imaging, stress echo and 3D echo. The Brian Haluska Sonographer Research Award Competition will showcase four of the best sonographer research abstracts presented in 2021.

## INNOVATION/TECHNOLOGY (IT)

The Innovation/Technology Track has been designed to communicate recent advances that improve quality. Topics include clinically-relevant innovations that improve diagnostic accuracy, quantification, and workflow; and breakthrough cutting-edge technologies that will be used for treating the patients of tomorrow.

## ISCHEMIA (I)

The Ischemia Track covers a diverse spectrum inclusive of obstructive and non-obstructive coronary diseases and stress echocardiography. Pericardial sessions have also been included. Sessions will address physiology, pathophysiology, diagnosis, and clinical management using echocardiography and multimodality imaging.

## MYOCARDIUM/FUNCTION (M)

The Myocardium/Function Track addresses the core and advanced competencies of pathologies involving the myocardium and provides an update about standards of care. Included in this track are sessions on cardio-oncology and non-ischemic cardiomyopathies.

## PEDIATRIC/CONGENITAL (PC)

The ASE Council on Pediatric and Congenital Heart Disease (PCHD) has designed a program that will highlight the "revolution" in echocardiography and advanced imaging modalities from fetus through adult. Established and upcoming experts in our field will come together to present virtual sessions that will showcase global initiatives through the COVID-19 pandemic, imaging pearls for complex CHD management, debates on CHD nomenclature, applications of AI, and the persistent challenges in assessment of function.

## PERIOPERATIVE (P)

The Perioperative Track, designed by ASE's Council on Perioperative Echocardiography, brings together cardiac anesthesiologists, sonographers, cardiologists, and surgeons with the goal of sharing knowledge in cardiovascular care and perioperative/periprocedural echocardiography.

## POINT OF CARE (POC)

The Point of Care Track focuses on this highly valuable modality that is of critical importance as healthcare practitioners utilize handheld devices to further patient care innovations. Sessions focusing on care of critically ill patients are also offered.

## SPECIAL SESSIONS (S)

The 2021 Program Committee has designed the Special Sessions Track to highlight outstanding keynote-like educational content. Join us for the special session with the *New England Journal of Medicine* on Saturday morning. Other special sessions include COVID-19, Sound Saves Lives, the Value Summit, and more.

## VALVES & STRUCTURAL HEART DISEASE (V)

Structural heart interventions have "revolutionized" the Valve Track! The track has been redesigned to integrate expertise from all members of the Structural Heart Team (including sonographers, cardiologists, cardiac anesthesiologists). Transcatheter interventions will be reviewed, providing case-based examples for learning. Sessions will highlight the success, challenges, and emerging tools of interventional echocardiography.

Sessions are identified with the following shapes to assist you in locating education aimed at your level of training.



BASIC



BASIC/INTERMEDIATE



INTERMEDIATE



INTERMEDIATE/ADVANCED



ADVANCED



BASIC/INTERMEDIATE/ADVANCED

# SCHEDULE AT A GLANCE

## FRIDAY, JUNE 18

All times are Eastern time.

| EXHIBIT HALL OPEN 3:30 – 9:30 PM |  |  |  |   |
|----------------------------------|--|--|--|---|
| 3:30 – 4:30 PM                   | ★ WELCOME TO ASE 2021 AND KEYNOTE PRESENTATION <i>A REVOLUTION IN CARDIOVASCULAR IMAGING</i> BY DR. ERIC TOPOL |  |  |   |
| 4:45 – 5:45 PM                   | <b>E</b><br>Stress Testing: Not Just for Coronary Artery Disease Anymore                                       | <b>C</b><br>Venous Challenges  | <b>V</b><br>Controversies in Valvular Disease  | <b>PC</b><br>Conquering COVID Together<br><i>(ASE/EACVI Joint Session**)</i>  |
| 6:00 – 7:00 PM                   | <b>P</b><br>Imaging in Transplantation: The Road from ECMO to Transplantation                                  | <b>M</b><br>Cardiac Chambers and the Techniques to Image Them  | <b>I</b><br>Cardiomyopathies in Latin America and the USA<br><i>(DIC-SBC Session*)</i> | <b>POC</b><br>POCUS in Unstable Patients<br><i>(Critical Care Echo SIG Session)</i>   |
| 7:15 – 8:15 PM                   | <b>V</b><br>Prosthetic Valve Dysfunction   | <b>IT</b><br>How to Utilize Artificial Intelligence for Echocardiography<br><i>(ASE/JSE Joint Session**)</i> | <b>M</b><br>Evaluating and Differentiating HFpEF: Making it Real                       | <b>EC</b><br>Troubleshooting for Current and Upcoming Structural Heart Interventions<br><i>(Emerging Echo Enthusiasts E3 SIG Session)</i> |
| 8:30 – 9:30 PM                   | <b>P</b><br>The Right Stuff  | <b>E</b><br>Myocardial Strain Imaging  | <b>PC</b><br>Challenges of the Systemic Ventricle                                      | <b>I</b><br>Following the Contrast Guidelines: Break Out the Bubbles!   |

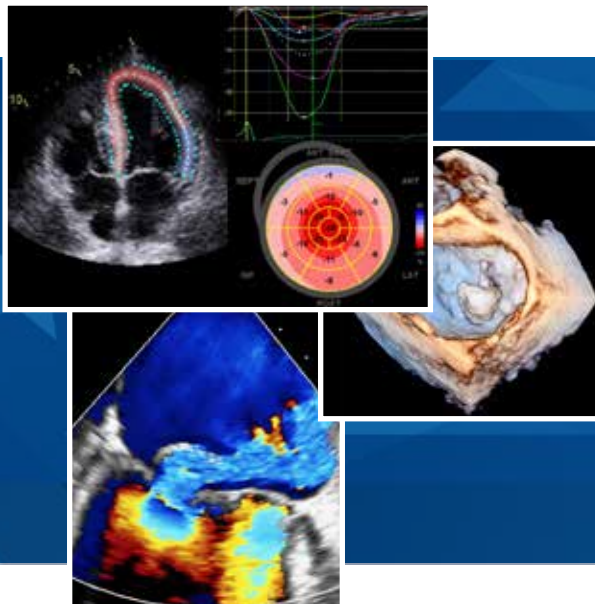
\* ASE International Alliance Partner Session. (DIC-SBC) Department of Cardiovascular Imaging of the Brazilian Society of Cardiology

\*\* ASE International Alliance Partner Joint Sessions. (EACVI) European Association of Cardiovascular Imaging. (JSE) Japanese Society of Echocardiography

“

The sessions were excellent. The ability to understand one's skills relative to **new advances in the field** were of great practical importance.

ASE 2020 Virtual Experience Attendee



**Excellently executed.**

Engaging information that I can take with me and apply to my profession and also share with others.

”

ASE 2020 Virtual Experience Attendee

ADULT CONGENITAL HEART DISEASE (A)

MYOCARDIUM/FUNCTION (M)

CIRCULATION (C)

PEDIATRIC/CONGENITAL (PC)

EARLY CAREER (EC)

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INNOVATION/TECHNOLOGY (IT)

SPECIAL SESSIONS (S)

ISCHEMIA (I)

VALVES & STRUCTURAL HEART DISEASE (V)

● BASIC

■ BASIC/INTERMEDIATE

▲ INTERMEDIATE

◆ INTERMEDIATE/ADVANCED

◆ ADVANCED

★ BASIC/INTERMEDIATE/ADVANCED

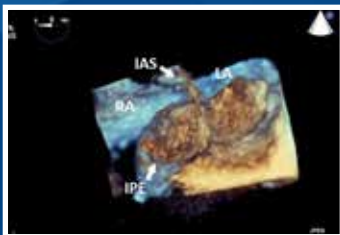
Schedule subject to change. For detailed information, visit [ASEScientificSessions.org](https://www.ase-scientificsessions.org).

# SCHEDULE AT A GLANCE

## SATURDAY, JUNE 19

All times are Eastern time.

| EXHIBIT HALL OPEN 10:00 AM – 6:30 PM |   |   |   |  |
|--------------------------------------|---|---|---|--|
| 9:15 – 9:45 AM                       | TECHNOLOGY SHOWCASE: GE HEALTHCARE  |   |   |  |
| 10:00 – 10:30 AM                     | ★ STATE OF ASE, 2021 AWARDS PRESENTATION, AND INCOMING PRESIDENT'S MESSAGE  |   |   |  |
| 10:30 AM – 12:00 PM                  | ★ Clinical Pathologic Conference: Case Records of the Massachusetts General Hospital<br><i>Special Session with the New England Journal of Medicine</i> |   | PC Fetal Symposium: In the Midst of a Revolution  |  |
| 12:10 – 1:10 PM                      | SCIENCE & TECHNOLOGY THEATER: LANTHEUS MEDICAL IMAGING, INC.  |   |   |  |
| 12:10 – 1:10 PM                      | VISIT EXHIBIT HALL  |   |   |  |
| 1:15 – 2:15 PM                       | M New Hypertrophic Cardiomyopathy Guidelines: Updated Approach to Diagnosis and Treatment   | A Adult Congenital Heart Disease I: Essentials          | PC Using Echocardiography to Guide the Management of Critically Sick Infants<br><i>(Neonatal Hemodynamics TnECHO SIG Session)</i> | P BAD Ventricular Assist Device Problems |
| 2:30 – 4:00 PM                       | VISIT EXHIBIT HALL  |   |   |  |
| 2:30 – 3:00 PM                       | TECHNOLOGY SHOWCASE: PHILIPS HEALTHCARE   |   |   |  |
| 3:00 – 4:00 PM                       | SCIENCE & TECHNOLOGY THEATER: SIEMENS HEALTHINEERS  |   |   |  |
| 4:05 – 4:10 PM                       | ASE CARES WELLNESS BREAK  |   |   |  |
| 4:15 – 5:15 PM                       | S COVID-19 Special Session  | PC Innovations in Technology and Cardiovascular Imaging | V Imaging Saves the Day: Complications During Transcatheter Procedures<br><i>(Interventional Echocardiography SIG Session)</i>    | E The Elusive Right Ventricle            |
| 5:30 – 6:30 PM                       | VISIT EXHIBIT HALL  |   |   |  |
| 5:30 – 6:00 PM                       | TECHNOLOGY SHOWCASE: PHILIPS HEALTHCARE   |   |   |  |
| 6:30 – 7:30 PM                       | Virtual Social Gathering and Council Sessions   |   |   |  |



*It was a very enjoyable, informative, and smooth conference. I will take new knowledge, new applications, and a new perspective to my daily practice.*

ASE 2020 Virtual Experience Attendee

ADULT CONGENITAL HEART DISEASE (A)

CIRCULATION (C)

EARLY CAREER (EC)

IMAGING ESSENTIALS (E)

INNOVATION/ TECHNOLOGY (IT)

ISCHEMIA (I)

MYOCARDIUM/ FUNCTION (M)

PEDIATRIC/ CONGENITAL (PC)

PERIOPERATIVE (P)

POINT OF CARE (POC)

SPECIAL SESSIONS (S)

VALVES & STRUCTURAL HEART DISEASE (V)



















● BASIC   ■ BASIC/INTERMEDIATE   ▲ INTERMEDIATE   ◆ INTERMEDIATE/ADVANCED   ◆ ADVANCED   ★ BASIC/INTERMEDIATE/ADVANCED

Schedule subject to change. For detailed information, visit [ASEScientificSessions.org](https://www.ase-scientificsessions.org).

# SCHEDULE AT A GLANCE

## SUNDAY, JUNE 20

All times are Eastern time.

| EXHIBIT HALL OPEN 10:30 AM – 6:45 PM |   |   |   |  |
|--------------------------------------|---|---|---|--|
| 10:30 – 11:00 AM                     |  <b>WELCOME AND 32<sup>ND</sup> ANNUAL EDLER LECTURE</b><br><i>ECHO, EQUITY, AND EMPOWERMENT: A FRAMEWORK FOR THE FUTURE</i> BY MADHAV SWAMINATHAN, MD, FASE |   |   |  |
| 11:00 AM – 12:00 PM                  |  Value Summit: An Insider's View of What's Happening in Washington, DC   |  Imaging in Cardio-Oncology: Making it Real  |  Adult Congenital Heart Disease II: Challenging Pathology  |  New Frontiers in Ultrasound: POCUS and Beyond              |
| 12:15 – 1:15 PM                      | SCIENCE & TECHNOLOGY THEATER: ABBOTT  |   |   |  |
| 12:15 – 1:15 PM                      | VISIT EXHIBIT HALL  |   |   |  |
| 1:20 – 1:25 PM                       |  <b>WELLNESS BREAK</b>   |   |   |  |
| 1:30 – 2:30 PM                       |  Value Summit: Maintaining Value in the Echo Lab   |  Arthur E. Weyman Young Investigator's Award Competition and 22 <sup>ND</sup> Annual Feigenbaum Lecture<br><i>Right Heart, Right Now: The Role of 3D Echocardiography</i> by Denisa Muraru, MD |  Imaging Guide to Intervention on Atrioventricular Valves  |  Myocardial Ischemia Debate: Bubbles vs. Rads               |
| 2:45 – 4:00 PM                       | 1:30 – 3:00 PM<br>VISIT EXHIBIT HALL  |   |   |  |
| 3:00 – 4:00 PM                       | SCIENCE & TECHNOLOGY THEATER: GE HEALTHCARE   |   |   |  |
| 4:00 – 5:00 PM                       |  Echo in Women by Women in Echo  |  Aerospace Cardiology<br><i>Gardin Lecture: My Life in Space: Impact of Biologic Science</i> by Serena Auñón-Chancellor, MD, MPH   |  TAVR: Still Plenty to Learn in 2021<br><i>Kalmanson Lecture: Resolving Discrepancies in Aortic Stenosis</i> by Catherine Otto, MD, FASE |  The Brian Haluska Sonographer Research Award Competition |
| 5:15 – 5:45 PM                       | VISIT EXHIBIT HALL  |   |   |  |
| 5:15 – 5:45 PM                       | TECHNOLOGY SHOWCASE: PHILIPS HEALTHCARE   |   |   |  |
| 5:45 – 6:45 PM                       |  Sound Saves Lives   |  Challenges on the Right   |  Play It Again Sam: Multi-Disciplinary Team Approach to Recurrent Infective Endocarditis<br><i>(ASE/EACVI Joint Session*)</i>            |  Aortic Pathology and Complications: Don't Foul Out       |
| 7:00 – 8:30 PM                       | ASE FOUNDATION VIRTUAL RESEARCH AWARDS GALA INCLUDING AN ECHO GAME SHOW!  |   |   |  |

\* ASE International Alliance Partner Joint Session. (EACVI) European Association of Cardiovascular Imaging

**ADULT CONGENITAL HEART DISEASE (A)**    **CIRCULATION (C)**    **EARLY CAREER (EC)**    **IMAGING ESSENTIALS (E)**    **INNOVATION/TECHNOLOGY (IT)**    **ISCHEMIA (I)**  
**MYOCARDIUM/FUNCTION (M)**    **PEDIATRIC/CONGENITAL (PC)**    **PERIOPERATIVE (P)**    **POINT OF CARE (POC)**    **SPECIAL SESSIONS (S)**    **VALVES & STRUCTURAL HEART DISEASE (V)**

 **BASIC**     **BASIC/INTERMEDIATE**     **INTERMEDIATE**     **INTERMEDIATE/ADVANCED**     **ADVANCED**     **BASIC/INTERMEDIATE/ADVANCED**

Schedule subject to change. For detailed information, visit [ASEScientificSessions.org](http://ASEScientificSessions.org).

# SCHEDULE AT A GLANCE

## MONDAY, JUNE 21

All times are Eastern time.

| EXHIBIT HALL OPEN 4:00 – 9:30 PM |  |   |   |   |
|----------------------------------|--|---|---|---|
| 4:00 – 5:00 PM                   | SCIENCE & TECHNOLOGY THEATER: ULTROMICS                                |   |   |   |
| 5:15 – 5:45 PM                   | S STANDARDIZATION IN ECHOCARDIOGRAPHY: THE NEXT FRONTIER               |   |   |   |
| 6:00 – 7:00 PM                   | E<br>Cases: 3D Saved My Transthoracic Exam                             | M<br>A Revolution in Mechanical Circulatory Support: Updates from the Front | V<br>Tips and Tricks for Success in Interventional Echo                         | P<br>TEE and Mechanical Circulatory Support (ITACTA Session*) |
| 7:15 – 8:15 PM                   | I<br>Myocardial Perfusion Echocardiography Using Echo Enhancing Agents | M<br>Cardiomyopathy Associated with Systemic or Metabolic Disorders         | E<br>Becoming Expert at Valvular Assessment                                     | PC<br>Never Ending Conundrums                                 |
| 8:30 – 9:30 PM                   | P<br>The Great Debates   | IT<br>Microbubbles from Diagnosis to Therapy                                | I<br>New Concepts in Stress Echo Around the World (SONECOM and SISIAc Session*) | V<br>Tricuspid Regurgitation: The Next Challenge              |

\* ASE International Alliance Partner Session.

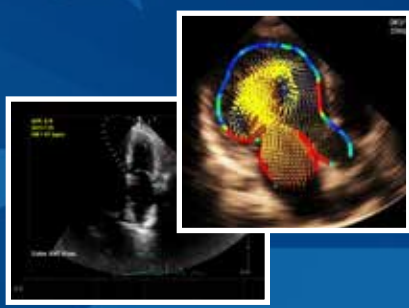
(ITACTA) Italian Association of Cardiothoracic Anaesthesiologists

(SONECOM) Sociedad Nacional de Ecocardiografía de México A.C. and (SISIAc) Sociedad de Imágenes Cardiovasculares de la Sociedad Interamericana de Cardiología "La imagen de Las Américas"

Terrific experience to hear international speakers with such

**high-quality presentations.**

ASE 2020 Virtual Experience Attendee



This virtual conference is very

**convenient and flexible to join.**

I can go back to review any content I am interested in. It was a wonderful experience!

ASE 2020 Virtual Experience Attendee

### Accreditation and Designation

ASE is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.



ASE designates this activity for a maximum of **57 AMA PRA Category 1 Credit™** pending approval.

Attending this course will help you achieve all the CME you need to meet IAC CME requirements for echo lab physicians and sonographers.

**ADULT CONGENITAL HEART DISEASE (A)**

**CIRCULATION (C)**

**EARLY CAREER (EC)**

**IMAGING ESSENTIALS (E)**

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**POINT OF CARE (POC)**

**SPECIAL SESSIONS (S)**

**VALVES & STRUCTURAL HEART DISEASE (V)**

● BASIC    ■ BASIC/INTERMEDIATE    ▲ INTERMEDIATE    ◆ INTERMEDIATE/ADVANCED    ◆ ADVANCED    ★ BASIC/INTERMEDIATE/ADVANCED

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**ASE** Foundation

American Society of Echocardiography  
2530 Meridian Parkway, Suite 450  
Durham, NC 27713

**REGISTER TODAY! EARLY REGISTRATION ENDS MAY 20, 2021.  
57 CME CREDITS & CONTENT AVAILABLE UNTIL SEPTEMBER 15, 2021.**

American Society of Echocardiography

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*Virtual Experience*

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**June 18-21, 2021**

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